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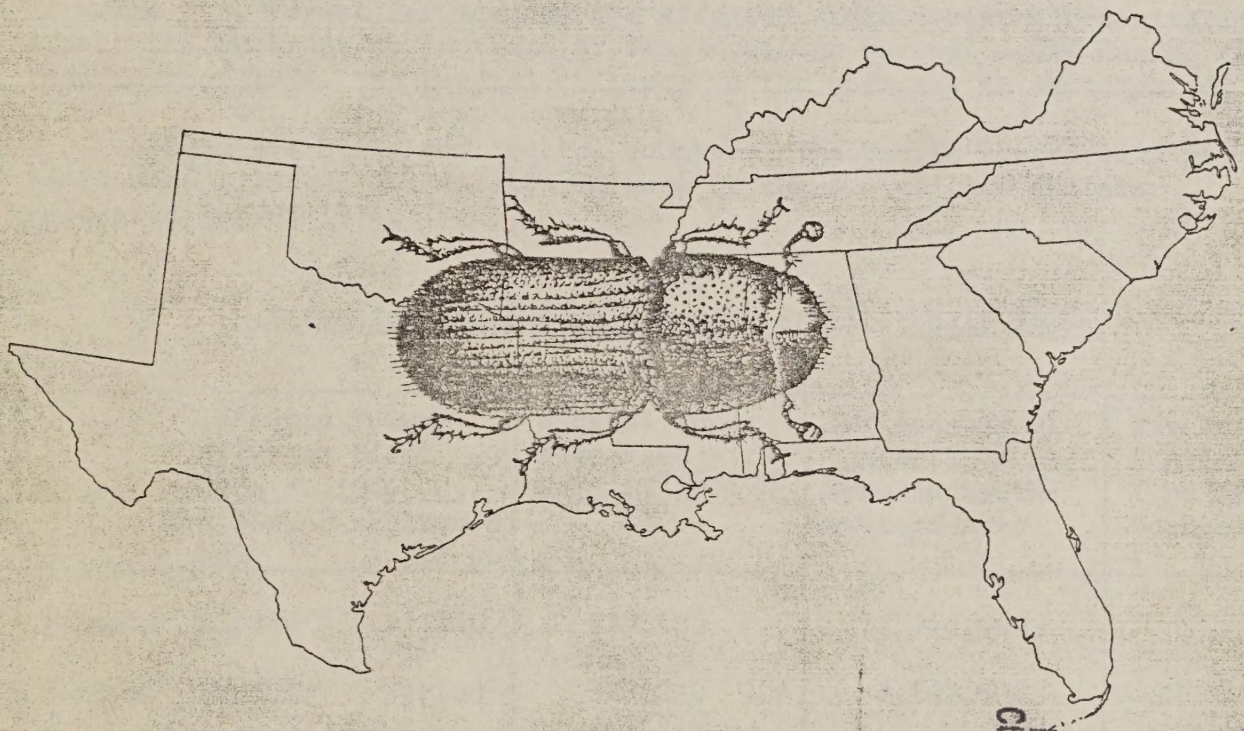
SOUTHERN PINE BEETLE OUTBREAK STATUS

January 1974



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U. S. Forest Service
SOUTHEASTERN AREA
State and Private Forestry
Atlanta, Georgia

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SOUTHERN PINE BEETLE OUTBREAK - 1974

Status Summary

The Southern Pine Beetle outbreak in the southern United States has increased in area and intensity during the first half of FY 1974.

The outbreak area now involves 58 percent of the 85.2 million acres of susceptible pine forests in the South.

The U.S. Forest Service and the affected state forestry organizations expect the outbreak to increase or remain at the current level during the remainder of 1974. No general collapse in the outbreak is anticipated.

Cooperative State and Federal southern pine beetle suppression projects were allotted 1.2 million dollars of the 2.4 million dollars requested for FY 1974.

Situation and Accomplishment for First Half FY 74

	Infested Volume Salvaged First Half FY 1974		Federal Funds Dispersed First Half FY 1974	Net Acreage of Susceptible Host Type in Southeastern Area	Net Acreage of Susceptible Host Type in Current Outbreak
	Saw Timber MBF	Pulpwood MCF			
Private	63,346	27,116	925,980	77,340,400	
Federal	19,537	1,563	328,230	7,842,800	
Total	82,883	28,679	1,254,210	85,183,200	49,826,883

Anticipated Second Half FY 1974 Accomplishments

	Anticipated Infested Timber to be Salvaged 2nd Half FY 1974		Funds Requested for Second Half FY 1974 (as of 1 Jan. 74)
	Saw Timber MBF	Pulpwood MCF	
Private	100,229	18,608	$ 866,169
Federal	20,709	1,971	312,124
Total	120,938	20,579	$1,178,293

States with Cooperative Suppression Projects - 9

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects

National Forests in North Carolina

Chattahoochee-Oconee National Forests, Georgia

Jefferson National Forest, Virginia

National Forests in Texas

Francis Marion and Sumter National Forests, South Carolina

Kisatchie National Forest, Louisiana

National Forests in Alabama

National Forests in Mississippi

Cherokee National Forest, Tennessee

Oak Ridge National Lab, Atomic Energy Commission, Tennessee

Timber Resource Susceptible to Attack

Over 85 million acres of commercial forest in the South are in pine types susceptible to southern pine beetle attack. Public ownership accounts for 7.8 million acres while 77.3 million acres are in private ownership.

Approximately 55 billion cubic feet of pine growing stock in the 13-state Southeastern Area are in susceptible host types. The volumes in pure-loblolly and shortleaf pine stands are 19.4 and 11.4 billion cubic feet, respectively. An additional 16.3 billion cubic feet are in mixed loblolly-shortleaf stands. The total volume of loblolly-shortleaf growing stock, 47 billion cubic feet, is 85 percent of the total susceptible pine growing stock in the South. Forest Survey also reports that the sawtimber portion of the growing stock totals 195.6 billion board feet. Of this pine sawtimber resource, 172.4 billion board feet or 88 percent of the total is loblolly and shortleaf pine.

Additional information may be found in the Appendix, Tables 1-4 and Figures 1 and 2.

APPENDIX

TABLE 1. Area of Susceptible Host Types in the Southeast by Ownership Class.[1/]
(thousand acres)

State	Ownership	Forest Types: Loblolly	Shortleaf	Shortleaf Loblolly	Pitch	Southern Pine[2/]	Oak Pine	Pond	Virginia	Table Mtn.	Longleaf Slash	Total
Alabama	Private	--	--	7,132.3	--	--	4,614.5	--	--	--	1,854.4	13,601.2
	Public	--	--	305.5	--	--	220.4	--	--	--	144.3	670.2
	Total	--	--	7,437.8	--	--	4,834.9	--	--	--	1,998.7	14,271.4
Arkansas	Private	--	--	2,982.5	--	--	2,466.6	--	--	--	--	5,449.1
	Public	--	--	685.5	--	--	573.0	--	--	--	--	1,258.5
	Total	--	--	3,668.0	--	--	3,039.6	--	--	--	--	6,707.6
Florida	Private	339.9	34.5	--	--	--	1,365.0	261.8	--	--	--	2,001.2
	Public	4.5	--	--	--	--	303.3	81.8	--	--	--	389.6
	Total	344.4	34.5	--	--	--	1,668.3	343.6	--	--	--	2,390.8
Georgia	Private	4,818.4	1,637.9	--	--	--	3,350.7	285.0	265.0	--	--	10,357.0
	Public	256.3	97.4	--	--	--	289.2	19.5	35.4	--	--	697.8
	Total	5,074.7	1,735.3	--	--	--	3,639.9	304.5	300.4	--	--	11,054.8
Kentucky	Private	--	--	--	--	326.2	443.5	--	--	--	--	769.7
	Public	--	--	--	--	41.5	113.9	--	--	--	--	155.4
	Total	--	--	--	--	367.7	557.4	--	--	--	--	925.1
Louisiana	Private	--	--	4,161.4	--	--	2,034.4	--	--	--	1,068.6	7,264.4
	Public	--	--	277.9	--	--	135.0	--	--	--	151.5	564.4
	Total	--	--	4,439.3	--	--	2,169.4	--	--	--	1,220.1	7,828.8
Mississippi	Private	--	--	3,718.8	--	--	2,969.8	--	--	--	1,051.6	7,740.2
	Public	--	--	523.8	--	--	402.2	--	--	--	283.8	1,209.8
	Total	--	--	4,242.6	--	--	3,372.0	--	--	--	1,335.4	8,950.0
North Carolina	Private	3,009.6	1,037.1	--	32.9	--	3,326.4	1,181.0	780.2	4.2	--	9,371.4
	Public	111.7	42.6	--	13.0	--	230.2	227.6	8.9	14.7	--	648.7
	Total	3,121.3	1,079.7	--	45.9	--	3,556.6	1,408.6	789.1	18.9	--	10,020.1
Oklahoma	Private	--	--	675.6	--	--	568.2	--	--	--	--	1,243.8
	Public	--	--	119.7	--	--	96.1	--	--	--	--	215.8
	Total	--	--	795.3	--	--	664.3	--	--	--	--	1,459.6
South Carolina	Private	2,588.9	772.9	--	4.6	--	1,970.8	344.7	151.7	--	--	5,833.6
	Public	327.6	101.2	--	--	--	154.0	40.7	10.9	--	--	634.4
	Total	2,916.5	874.1	--	4.6	--	2,124.8	385.4	162.6	--	--	6,468.0
Tennessee	Private	--	--	847.8	--	--	998.7	--	--	--	--	1,846.5
	Public	--	--	151.0	--	--	199.3	--	--	--	--	350.3
	Total	--	--	998.8	--	--	1,198.0	--	--	--	--	2,196.8
Texas	Private	--	--	4,315.0	--	--	2,241.9	--	--	--	347.9	6,904.8
	Public	--	--	593.7	--	--	64.2	--	--	--	10.6	668.5
	Total	--	--	4,908.7	--	--	2,306.1	--	--	--	358.5	7,573.3
Virginia	Private	1,077.6	323.8	--	32.4	--	2,326.8	2.6	1,174.4	19.9	--	4,957.5
	Public	38.3	15.2	--	31.2	--	210.5	--	71.3	12.9	--	379.4
	Total	1,115.9	339.0	--	63.6	--	2,537.3	2.6	1,245.7	32.8	--	5,336.9
Total	Private	11,834.4	3,806.2	23,833.4	69.9	326.2	28,677.3	2,075.1	2,371.3	24.1	4,322.5	77,340.4
	Public	738.4	256.4	2,657.1	44.2	41.5	2,991.3	369.6	126.5	27.6	590.2	7,842.8
	All Ownership	12,572.8	4,062.6	26,490.5	114.1	367.7	31,668.6	2,444.7	2,497.8	51.7	4,912.7	85,183.2

1/ Data extracted from U.S. Forest Service Resource Bulletins published by the Southern & Southeastern Forest Experiment Stations.

2/ Forests in which 50% or more of the stocking is in shortleaf or other southern yellow pines singly or in combination.

Table 2. SITUATION AND ACCOMPLISHMENT 1972 - 1974 (1st Half)

State	Ownership	FY 1972 Gross Outbreak Area 1/	FY 1972 Federal Funds Expended $	FY 1972 Infested Volume Salvaged MBF	FY 1972 Infested Volume Salvaged MCF	FY 1973 Gross Outbreak Area 1/	FY 1973 Federal Funds Expended $	FY 1973 Infested Volume Salvaged MBF	FY 1973 Infested Volume Salvaged MCF	FY 1974 (1st Half) Gross Outbreak Area 1/	FY 1974 (1st Half) Federal Funds Received 1st Half 1974	FY 1974 (1st Half) Infested Volume Salvaged MBF	FY 1974 (1st Half) Infested Volume Salvaged MCF
Alabama	Private	---	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	500,000	14,925	6,911
	Federal	203,000	13,293	804	---	500,000	180,064	6,194	502	1,270,240	73,428	1,730	107
	Total	203,000	13,293	804	---	15,500,000	680,064	72,916	20,839	16,270,240	573,428	16,655	7,018
Arkansas	Private	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	197	85
	Federal	---	---	---	---	---	---	---	---	---	---	---	---
	Total	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	197	85
Georgia	Private	2,000,000	988	290	---	9,200,000	38,000	3,920	2,717	9,018,130	96,000	15,212	8,255
	Federal	296,690	10,960	4,767	---	700,000	51,396	6,431	628	1,336,132	50,124	2,173	187
	Total	2,296,690	11,948	5,057	---	9,900,000	89,396	10,351	3,345	10,354,262	146,124	17,385	8,442
Louisiana	Private	4,000,000	26,000	16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	979	157
	Federal	561,000	60,630	6,550	---	600,000	59,894	2,742	411	1,017,287	44,000	569	17
	Total	4,561,000	86,630	22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	144,000	1,548	174
Mississippi	Private	---	---	---	---	1,600,000	44,960	240	518	1,652,600	67,422	212	229
	Federal	188,615	17,168	3,000	---	200,000	50,034	2,513	10	373,497	36,618	1,954	---
	Total	188,615	17,168	3,000	---	1,800,000	94,994	2,753	528	2,026,097	104,040	2,166	229
North Carolina	Private	4,327,717	9,579	21,025	---	6,700,000	62,841	20,143	2,351	13,500,000	20,235	17,760	2,577
	Federal	631,220	21,110	900	---	600,000	41,448	2,012	110	2,752,430	29,000	789	284
	Total	4,958,937	30,689	21,925	---	7,300,000	104,289	22,155	2,461	16,252,430	49,235	18,549	2,861
South Carolina	Private	514,000	---	---	113	3,600,000	---	544	558	3,900,000	32,500	4,325	6,427
	Federal	481,479	22,070	2,767	---	1,300,000	55,183	2,902	814	1,474,444	20,250	1,479	209
	Total	995,479	22,070	2,767	113	4,900,000	55,183	3,446	1,372	5,249,444	52,750	5,804	6,636
Tennessee	Private	---	---	---	---	---	---	---	---	1,714,984	---	---	9
	Federal	50,000	15,700	579	---	80,000	22,350	341	69	338,136	13,700	112	48
	Total	50,000	15,700	579	---	80,000	22,350	341	69	2,053,120	13,700	112	57
Texas	Private	6,200,000	45,000	2,000	---	8,000,000	165,000	28,000	811	8,000,000	35,000	3,884	126
	Federal	80,000	4,800	300	---	700,000	56,924	4,847	185	1,716,967	52,200	8,361	338
	Total	6,280,000	49,800	2,300	---	8,700,000	221,924	32,847	996	9,716,967	87,200	12,245	464
Virginia	Private	---	---	---	---	4,600,000	---	6,000	2,700	6,889,600	4,750	5,852	2,340
	Federal	---	---	---	---	71,485	9,460	180	497	3,689	8,910	2,370	373
	Total	---	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	13,660	8,222	2,713
SA TOTALS	Private	17,041,717	$ 81,567	39,315	563	56,845,000	$1,118,753	144,274	32,848	67,686,314	877,192	63,346	27,116
	Federal	2,492,004	$165,731	19,667	---	4,751,485	$ 526,753	28,162	3,226	10,352,822	328,230	19,537	1,563
	Total	19,533,721	$247,298	58,982	563	61,596,485	$1,645,506	172,436	36,074	78,039,136	1,205,422	82,883	28,679

1/ Acreage summarized on a county basis; see Table 4.

Table 3.

OUTLOOK FOR SOUTHERN PINE BEETLE SITUATION IN SOUTHEASTERN AREA FOR SECOND HALF FY 1974

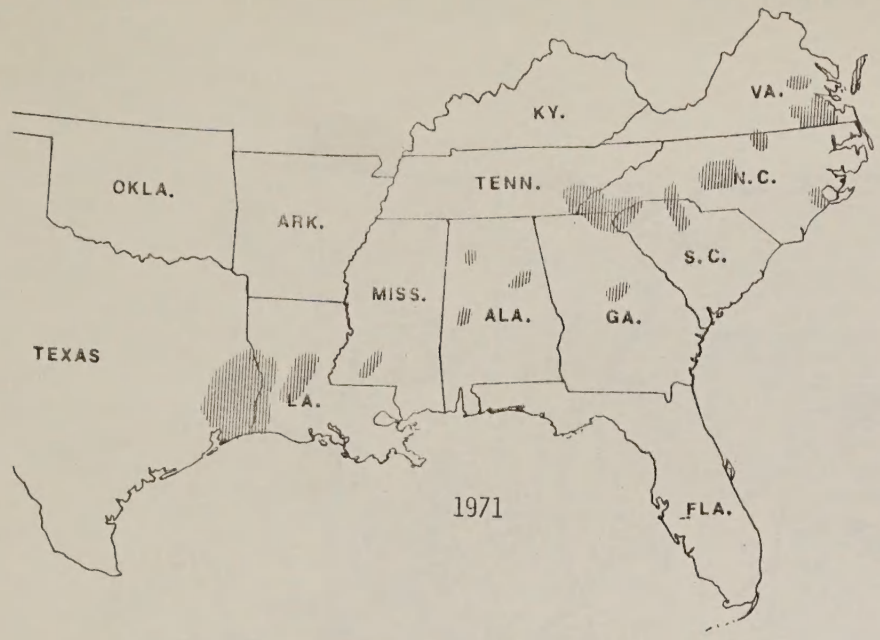
State	Ownership	Federal Funds Requested for 2nd Half F.Y. 1974	Anticipated Infested Timber to be Salvaged 2nd Half F.Y. 1974 MBF	MCF	Net Acreage of Host Type in State	Net Acreage of Host Type in Current Outbreak	Current Status and Course of Outbreak (January 1, 1974)
Alabama	Private	$ 477,988	46,860	---			Declining in coastal portions of state and continuing at a severe level in North and South Alabama,
	Federal	73,427	2,270	219			
	Total	551,415	49,130	219	14,271,400	11,161,000	
Arkansas	Private	$ 16,284	239	7			Outbreak decreasing in Ashley County and increasing in western part of Union County.
	Federal	---	---	---			
	Total	16,284	239	7	6,707,600	612,000	
Georgia	Private	$ 63,200	12,538	4,987			Beetle populations are high and continued tree mortality is expected during FY 1974. Most severe outbreak is still in northeast Georgia.
	Federal	27,501	2,173	187			
	Total	90,701	14,711	5,174	11,054,800	5,469,302	
Louisiana	Private	$ 70,000	5,021	368			The extent of the outbreak is no longer increasing and the number of infestations has decreased.
	Federal	34,100	581	34			
	Total	104,100	5,602	402	7,828,800	7,143,100	
Mississippi	Private	$ 31,211	1,788	696			Outbreak slightly increasing in area.
	Federal	36,618	1,846	---			
	Total	67,829	3,634	696	8,950,000	2,435,700	
North Carolina	Private	$ 20,236	16,240	2,576			The outbreak is increasing in area and intensity. Mild winter weather has increased the potential for expending beetle populations during 1974.
	Federal	31,000	789	284			
	Total	51,236	17,029	2 860	10,020,100	9,957,734	
South Carolina	Private	$ 32,500	2,675	6,573			Outbreak for coastal counties through spring 1974 is good due to intensified suppression efforts. Outbreak is still severe in most Piedmont counties and is expected to intensify in 1974.
	Federal	22,250	1,479	209			
	Total	54,750	4,154	6,782	6,468,000	3,983,202	
Tennessee	Private	---	500	74			Populations increasing to a rapid rate in eastern Tennessee. The outbreak is expected to be severe in 1974.
	Federal	$ 35,468	112	48			
	Total	35,468	612	122	2,196,800	857,900	
Texas	Private	$ 150,000	8,516	987			Outbreak increasing slightly in western and northwestern portion of outbreak area and decreasing slightly in southeastern portion.
	Federal	44,760	9,089	616			
	Total	194,760	17,605	1,603	7,573,300	5,758,300	
Virginia	Private	$ 4,750	5,852	2,340			Outbreak increasing in severity in five southern counties; static over the rest of the 1973 outbreak area.
	Federal	7,000	2,370	374			
	Total	11,750	8,222	2,714	5,336,900	2,448,645	
SA TOTALS	Private	$ 866,169	100,229	18,608			
	Federal	$ 312,124	20,709	1,971			
	Total	$1,178,293	120,938	20,579	80,407,700	49,826,883	

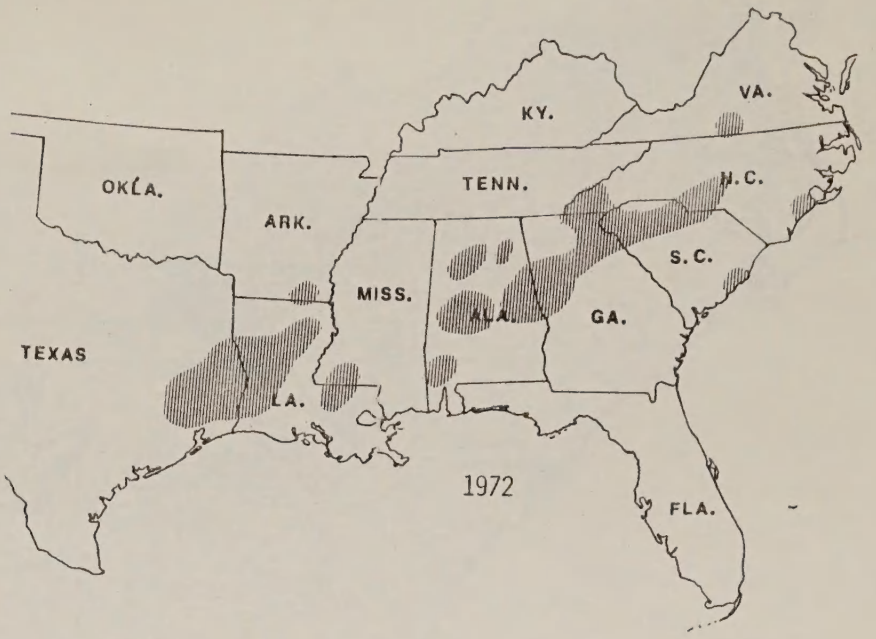
Table 4. Status of the southern pine beetle outbreak on a county basis, January 1974[1/]

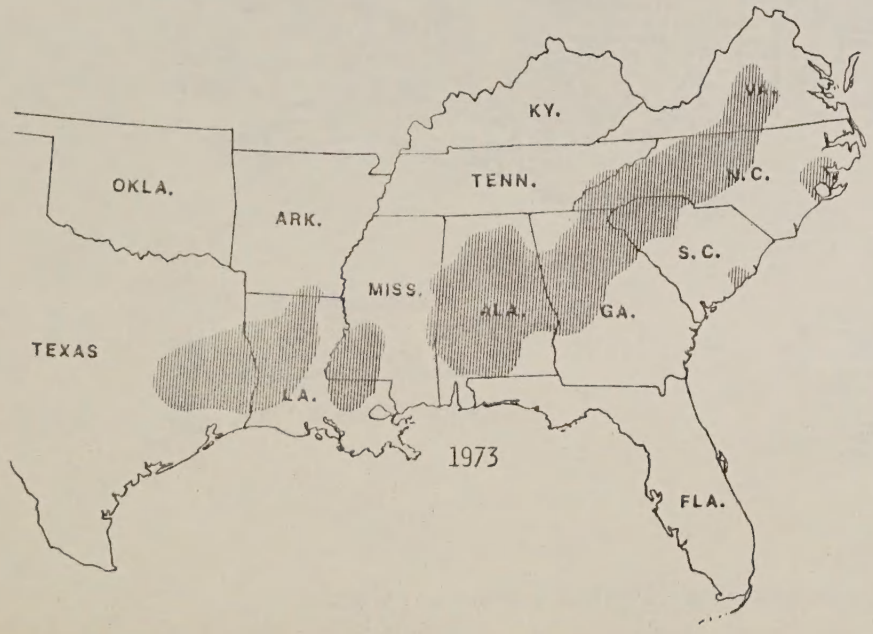
State	No. of Counties In Current Outbreak Area	No. of Counties Having Susceptible Host Type	Total No. of Counties in State
Alabama	53	66	67
Arkansas	2	47	75
Georgia	56	158	159
Louisiana	31	38	64
Mississippi	18	69	82
North Carolina	71	100	100
South Carolina	22	46	46
Tennessee	13	55	95
Texas	22	44	254 (63 - East Texas)
Virginia	27	87	98
SA Total	315	710	1,040

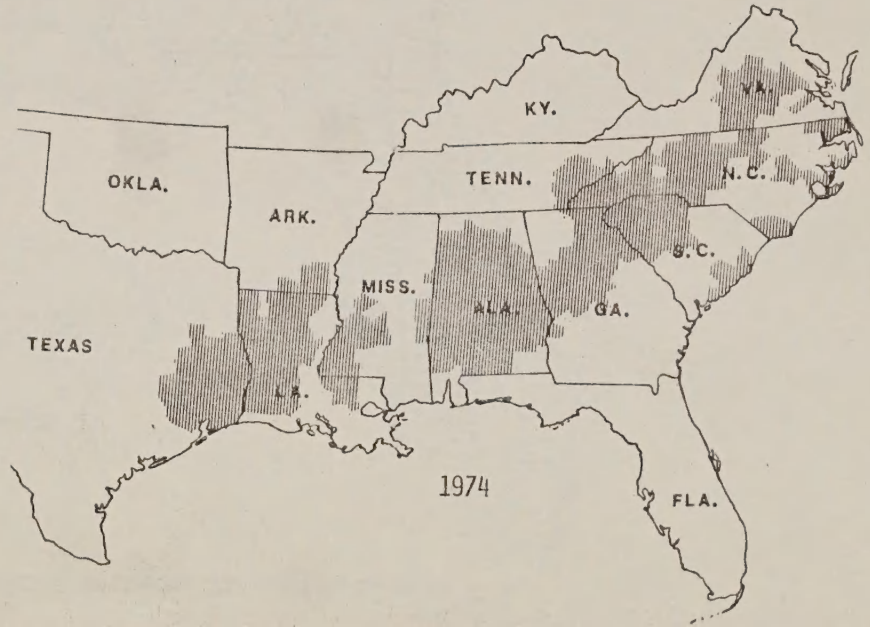
1/ Status maps and the gross outbreak area have been compiled for each state on a county basis primarily from information supplied by the forestry organizations of the respective states. Gross outbreak area is the total area within the counties with southern pine beetle infestations. The acreage of susceptible pine type within the outbreak area was compiled on a county basis from forest survey data provided by the Southern and Southeastern Forest Experiment Stations, U.S. Forest Service.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974









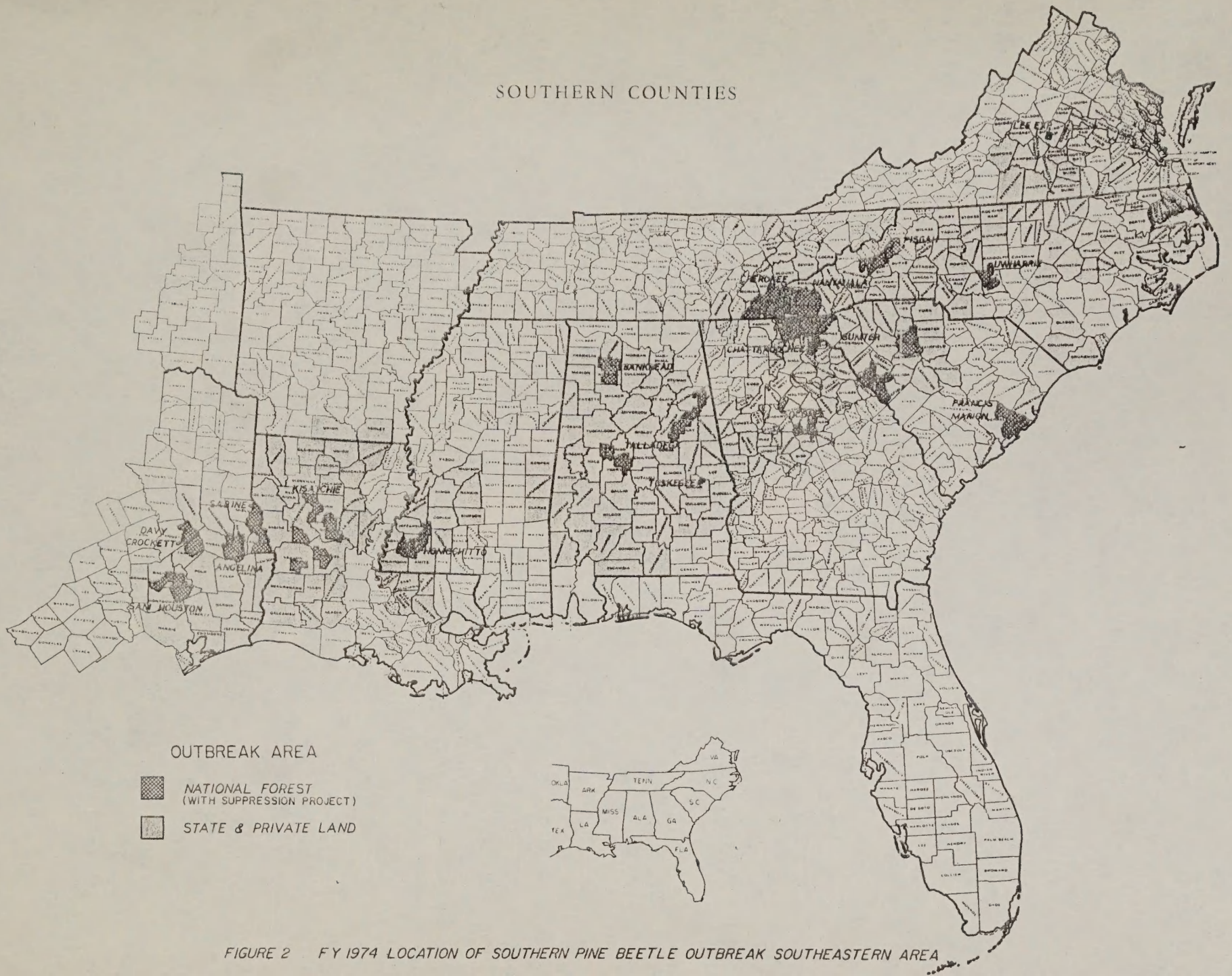


FIGURE 2 FY 1974 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK SOUTHEASTERN AREA